

VRLA AGM SEALED LEAD ACID BATTERY

VTA12-100

The Valiant VTA series AGM batteries are designed for float and cycling applications. The VTA series offers a 30% higher cycle life than standard AGM and a 10-year float life that is achieved through a slightly different active paste material and a slightly stronger electrolyte. They are perfectly suited for UPS/Telecom, remote site, and emergency power systems.

12V
Voltage 100AH
Capacity AGM
Technology VRLA
Battery



GENERAL FEATURES

- 30% more cycle life
- Deep discharge recovery, 700 cycles @ 50% DOD
- Thick plate design with high tin/low calcium alloy
- 10-year service life in float applications
- High power density

APPLICATIONS

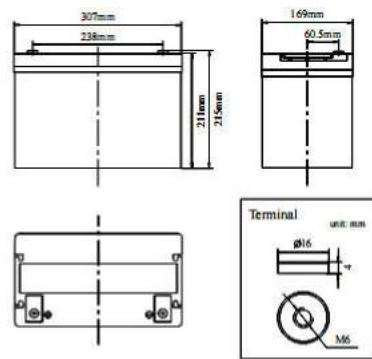
- Telecom, controls, remote site
- UPS and inverter systems
- Solar and wind systems
- Emergency backup power systems
- RV and marine

COMPLIED STANDARDS



DIMENSIONS & WEIGHT

Length(mm/inch)	307/12.09
Width(mm/inch)	169/6.65
Height(mm/inch)	211/8.31
Total Height(mm/inch)	215/8.46
Weight(kg/lbs)	27/59.5



TECHNICAL SPECIFICATIONS

Nominal Voltage		12V(6 cells per unit)
Design Floating Life @25°C		10 Years
Nominal Capacity @25°C(10 hour rate@10.0A,10.8V)		100Ah
Capacity @25°C		20hour rate (5.55A,10.8V) 5 hour rate (18.3A,10.5V) 1 hour rate (66.5A,9.6V)
Internal Resistance		Full Charged Battery@25°C
Ambient Temperature		Discharge Charge Storage
Max. Discharge Current@25°C		600A(5s)
Capacity affected by Temperature (10 hour)		40°C 25°C 0°C -15°C
Self-Discharge@25°C per Month		3%
Charge (Constant Voltage) @25°C	Standby Use	Initial Charging Current Less than 25A Voltage 13.6-13.8V
	Cycle Use	Initial Charging Current Less than 25A Voltage 14.4-14.9V

BATTERY DISCHARGE TABLE

Discharge Constant Current per Cell (Amperes at 25°C)

F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	168.8	105.1	75.4	66.5	40.5	29.6	19.1	11.6	10.40	5.77
1.65V	161.8	102.2	73.4	64.7	39.8	29.1	18.8	11.5	10.30	5.72
1.70V	154.8	99.4	71.3	63.0	39.1	28.6	18.5	11.4	10.20	5.66
1.75V	147.7	96.6	69.3	61.2	38.1	27.9	18.3	11.3	10.10	5.61
1.80V	140.7	93.8	67.3	59.4	37.2	27.2	18.0	11.2	10.00	5.55

Discharge Constant Power per Cell (Watts at 25°C)

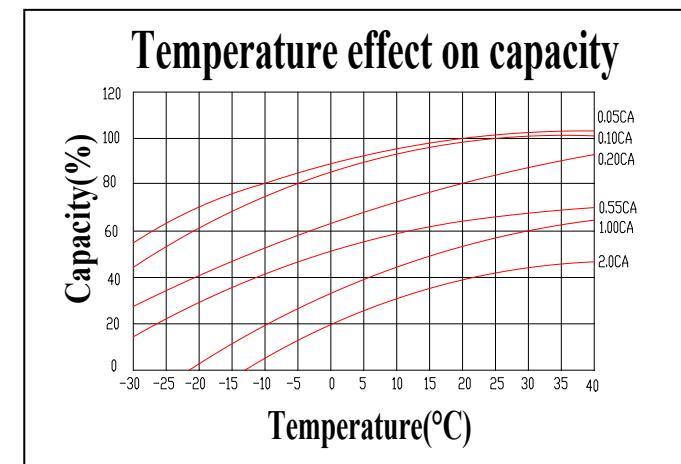
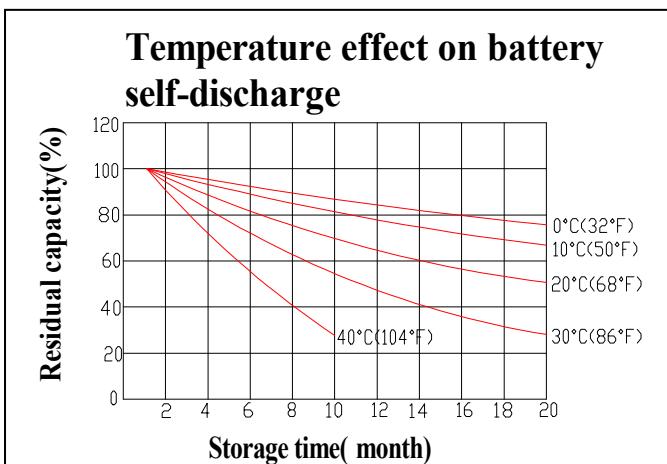
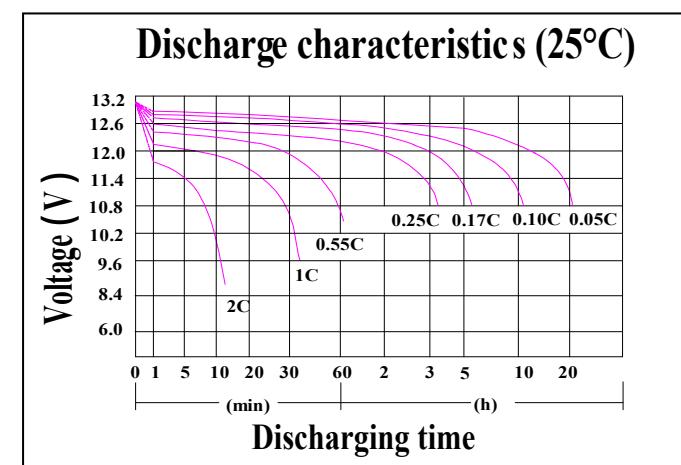
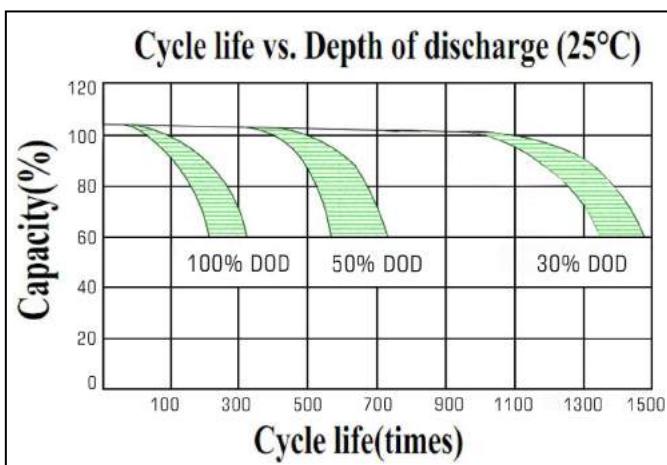
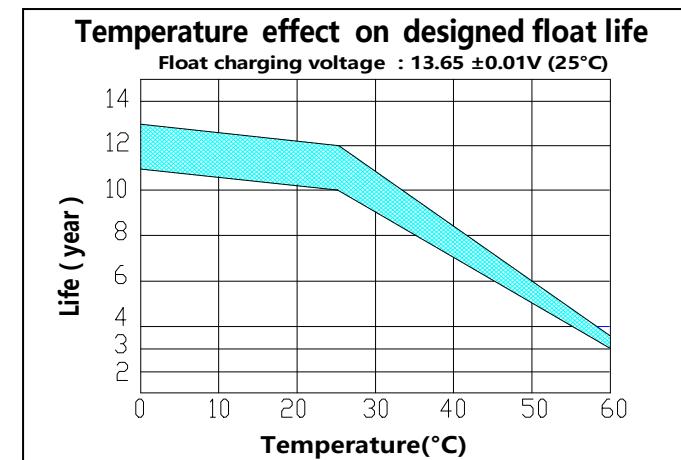
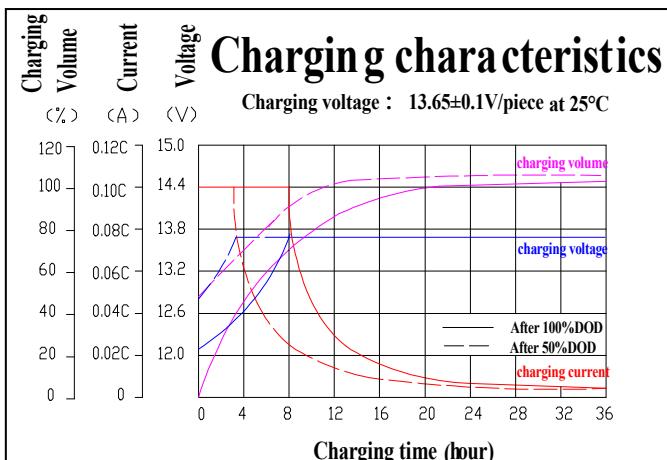
F.V/Time	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	314.9	195.9	140.6	124.1	75.6	55.3	35.6	21.7	19.4	10.8
1.65V	301.8	190.7	136.8	120.8	74.2	54.3	35.1	21.5	19.2	10.7
1.70V	288.6	185.4	133.0	117.4	72.8	53.3	34.6	21.3	19.0	10.6
1.75V	275.5	180.2	129.3	114.1	71.1	52.0	34.1	21.1	18.8	10.5
1.80V	262.4	174.9	125.5	110.8	69.4	50.7	33.6	20.9	18.7	10.4

Note: The above data is based on average values and can typically be achieved within 3 charge/discharge cycles. Battery designs and specifications are subject to change without notice. Contact Valiant for the latest information.

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PERFORMANCE CHARACTERISTICS



BATTERY CONSTRUCTION

Component	Positive plate	Negative plate	Container & Cover	Safety valve	Terminal	Separator	Electrolyte	Pillar seal
Features	Thick high Sn low Ca grid with special paste	Balanced Pb-Ca grid for improved recombination efficiency	Fire resistance ABS (UL94-V0)	Flame Si-Rubber and aging resistance	Female Copper Insert M6	Advanced AGM separator for high pressure cell design	Dilute high purity sulfuric acid	Two layers epoxy resin seal